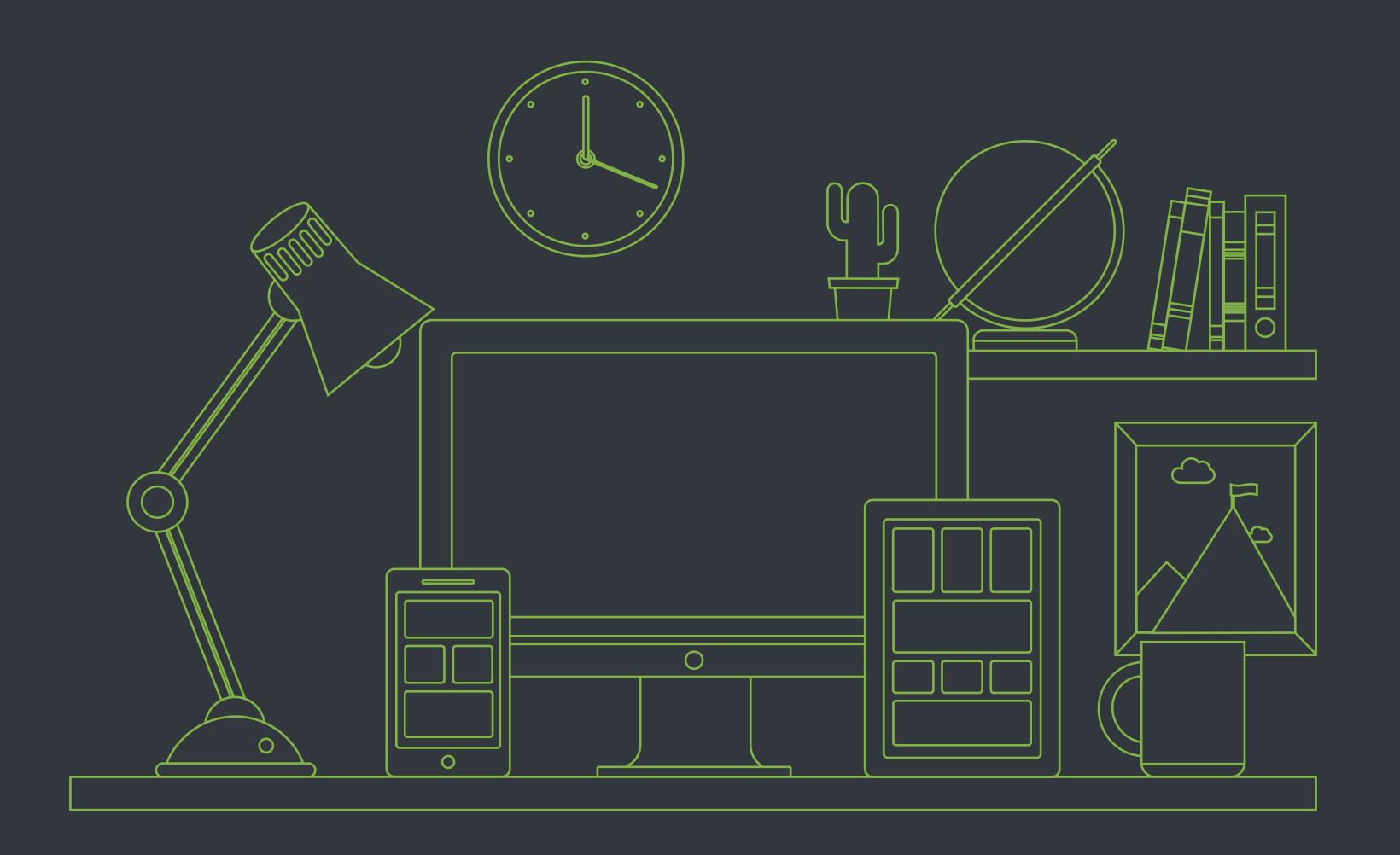
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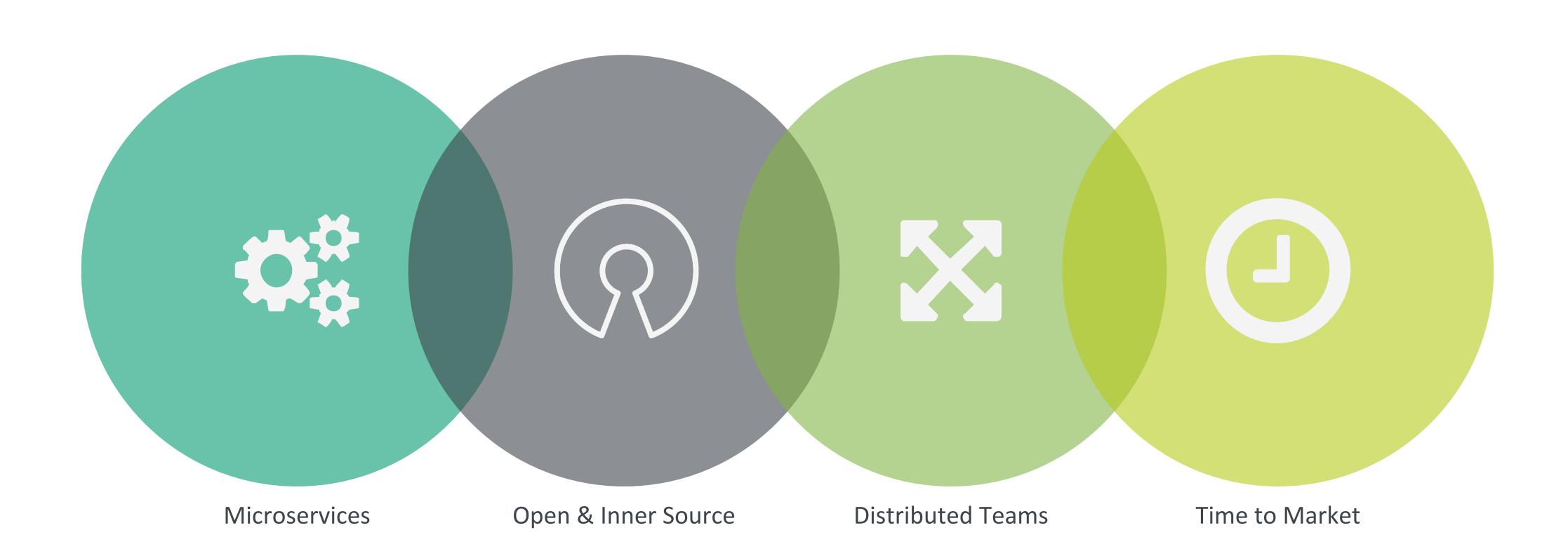
@rorypreddy



AGENDA

- 1. WHAT IS CODESPACES?
- 2. SECURITY
- 3. CONFIGURATION
- 4. Demo

TRENDS

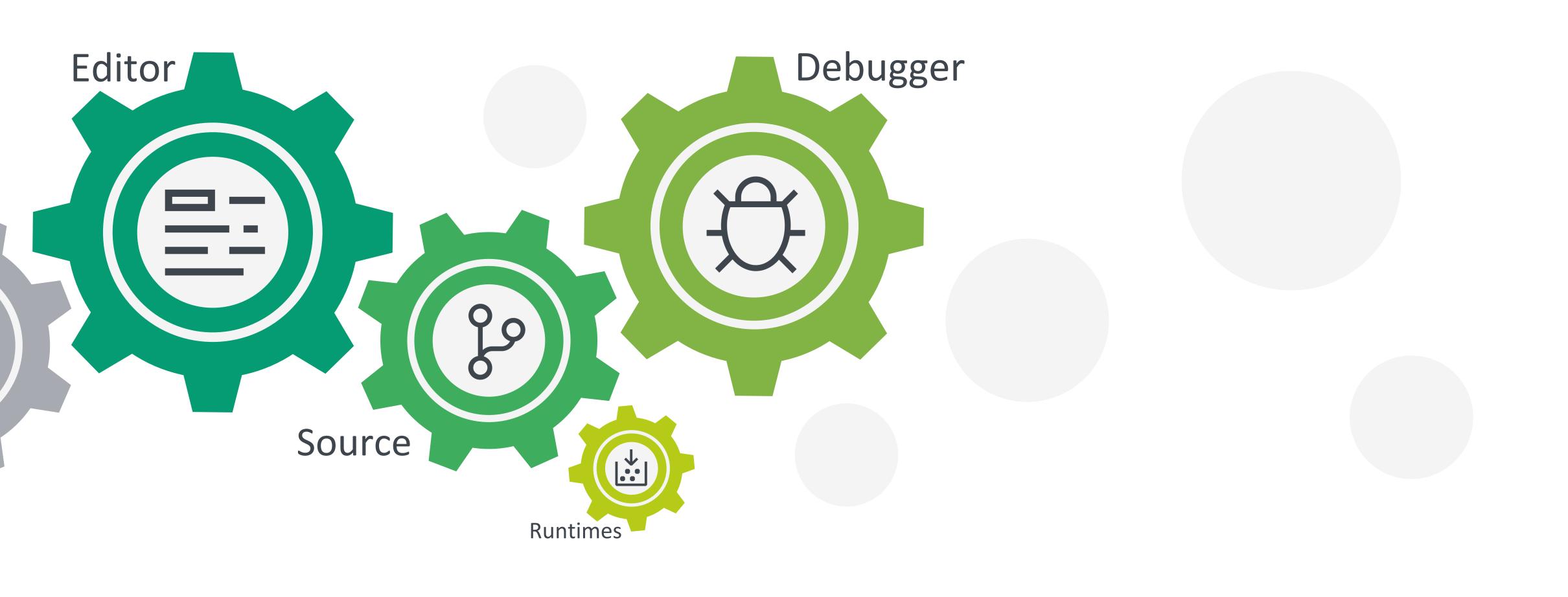


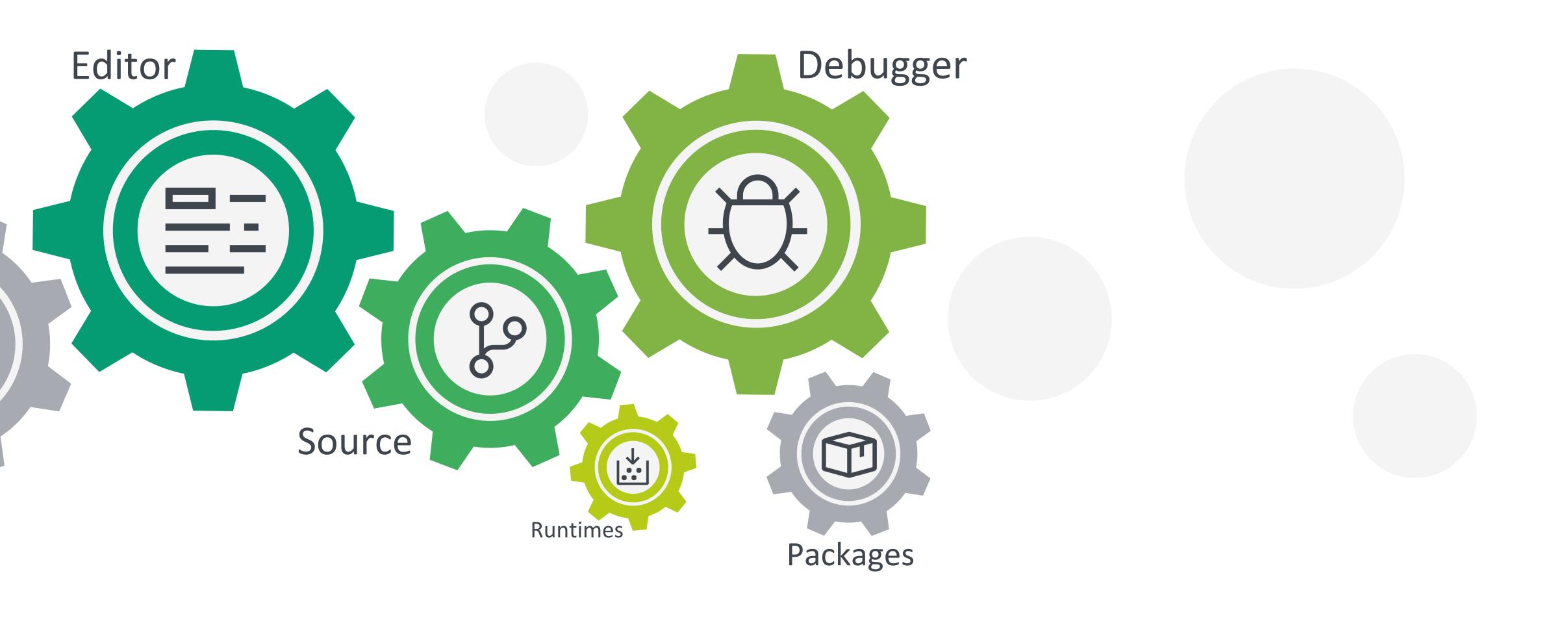


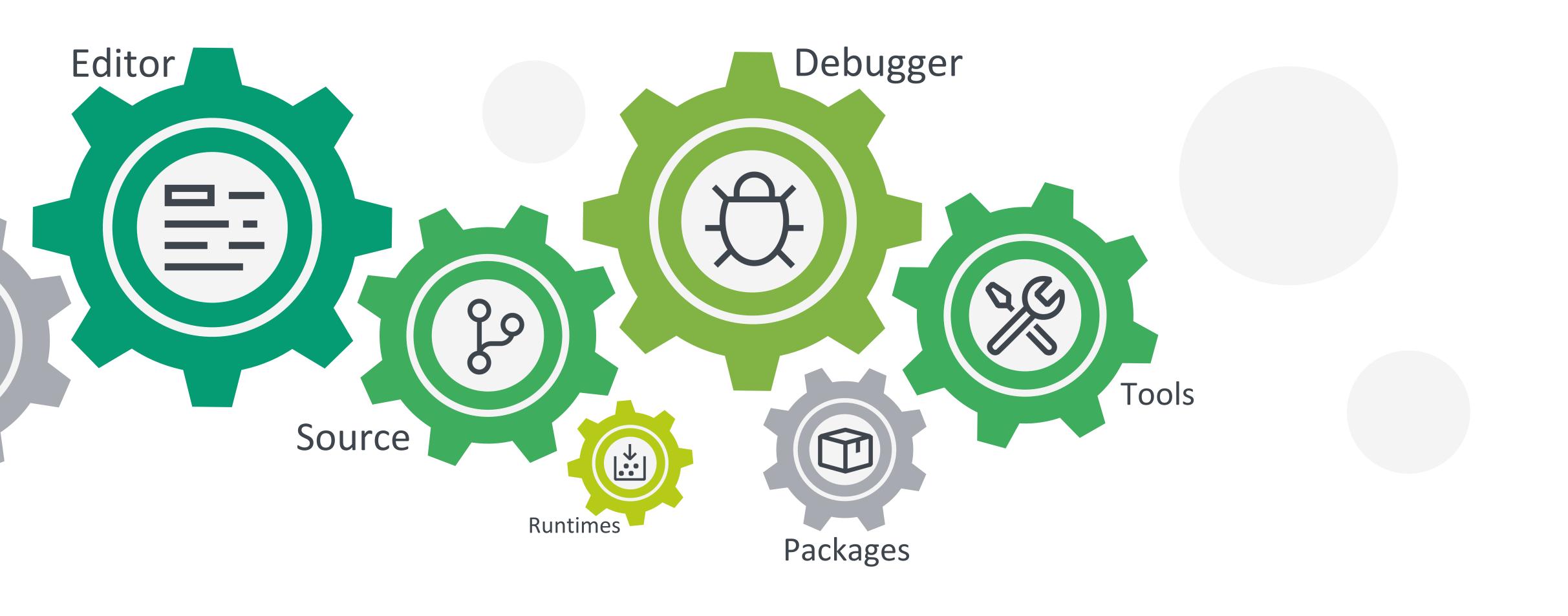


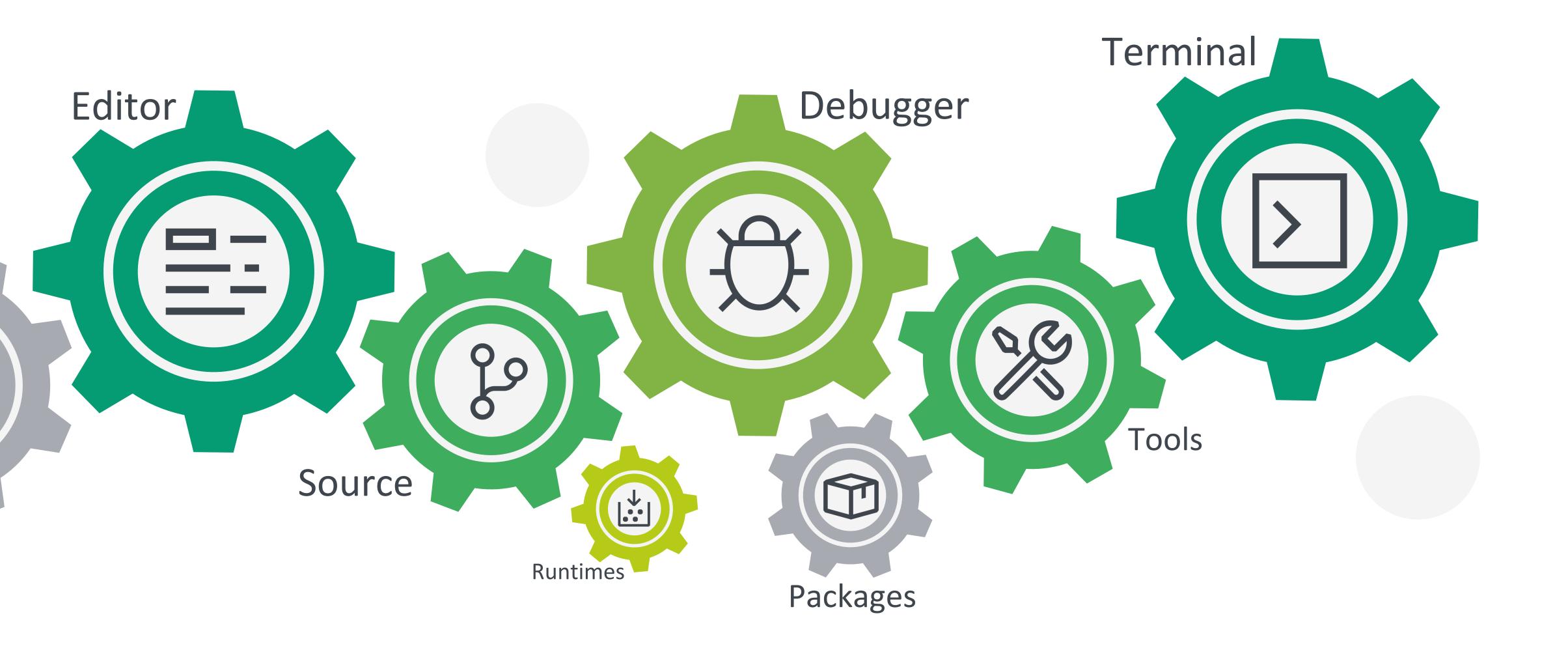


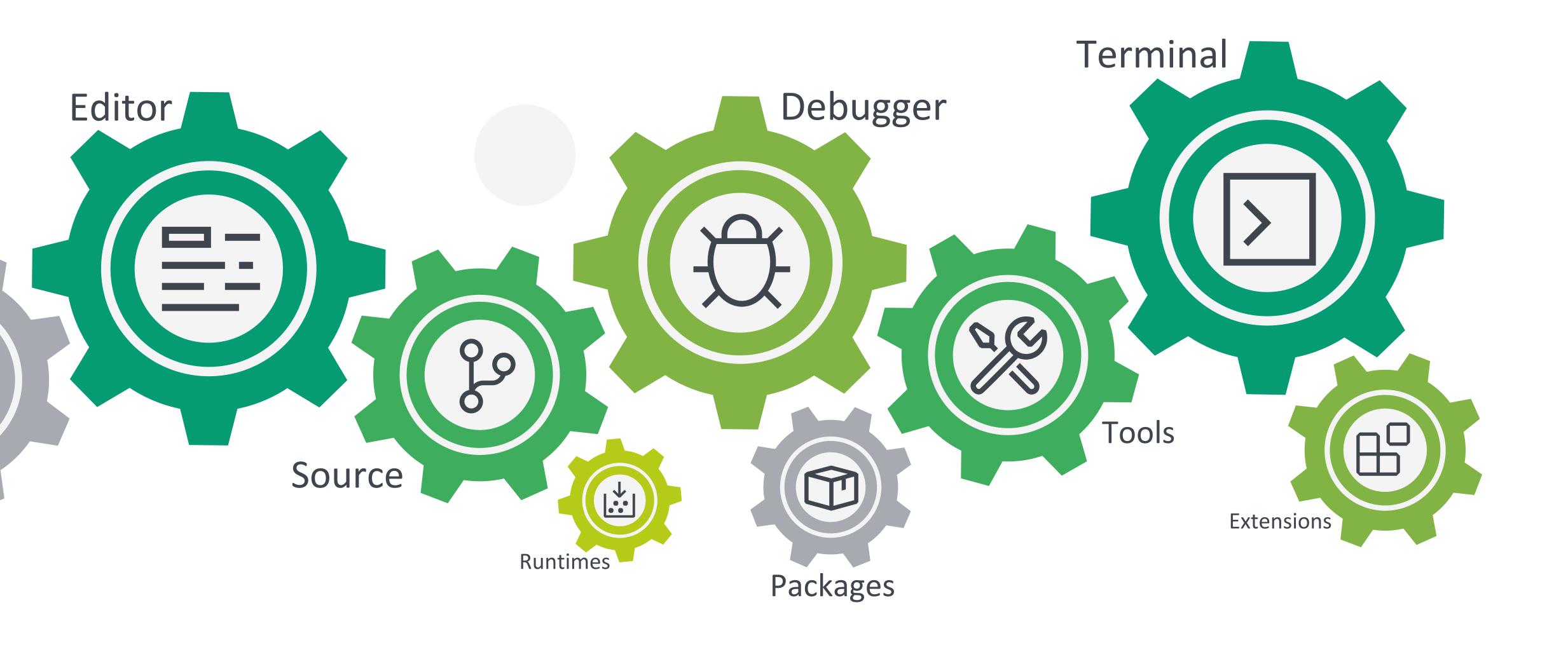


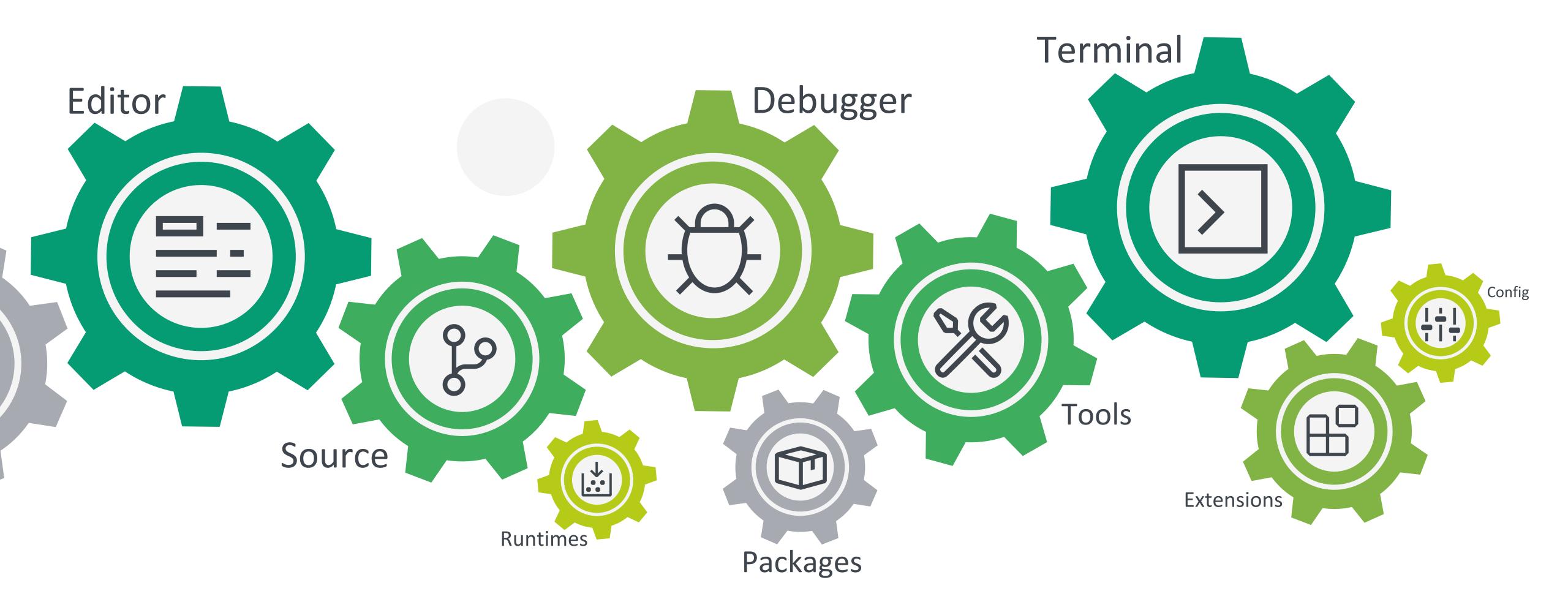








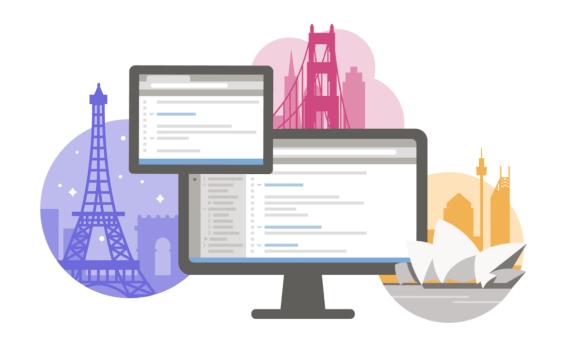




WHAT IS CODESPACES?









MANAGED ENVIRONMENTS FOR ANY PROJECT

Fully-managed,
on-demand dev environments that
dramatically reduce setup and
maintenance

FEEL AT HOME EVEN WHEN AWAY

Environment requirements are auto-detected, but can be configured, and your settings, themes, Git identity are roamed so the experience looks and feels like local

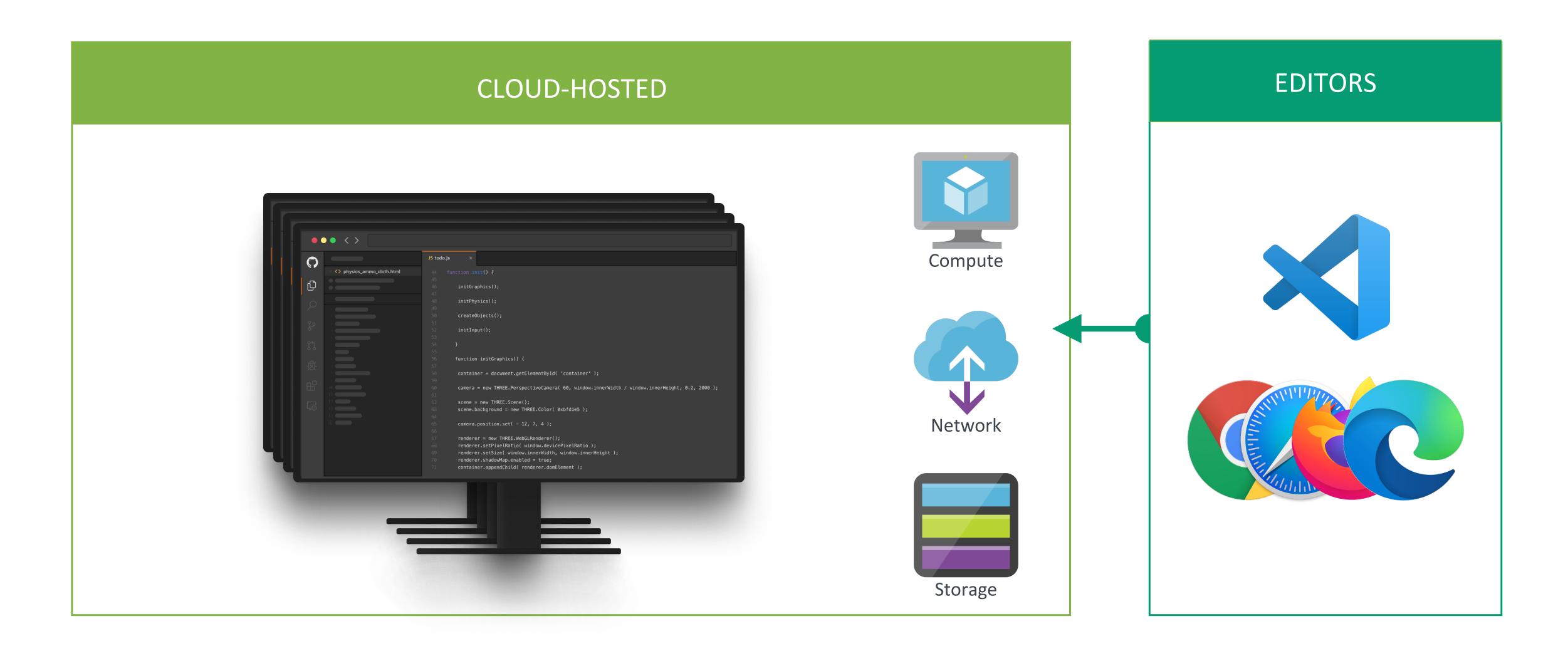
DEVELOP FROM ANYWHERE

Connect from anywhere: Visual Studio Code, browser-based companion editor

SUPERCHARGED COLLABORATIVE DEVELOPMENT

Fully collaborative environment, complete with
Al-assisted development support

CODESPACES



COMPUTE

- Cloud HOSTED
 Environments are hosted in Cloud
- VIRTUAL MACHINE ISOLATION
 Each environment runs on a dedicated VM
 which is automatically suspended and
 deleted when not in use to reduce costs.

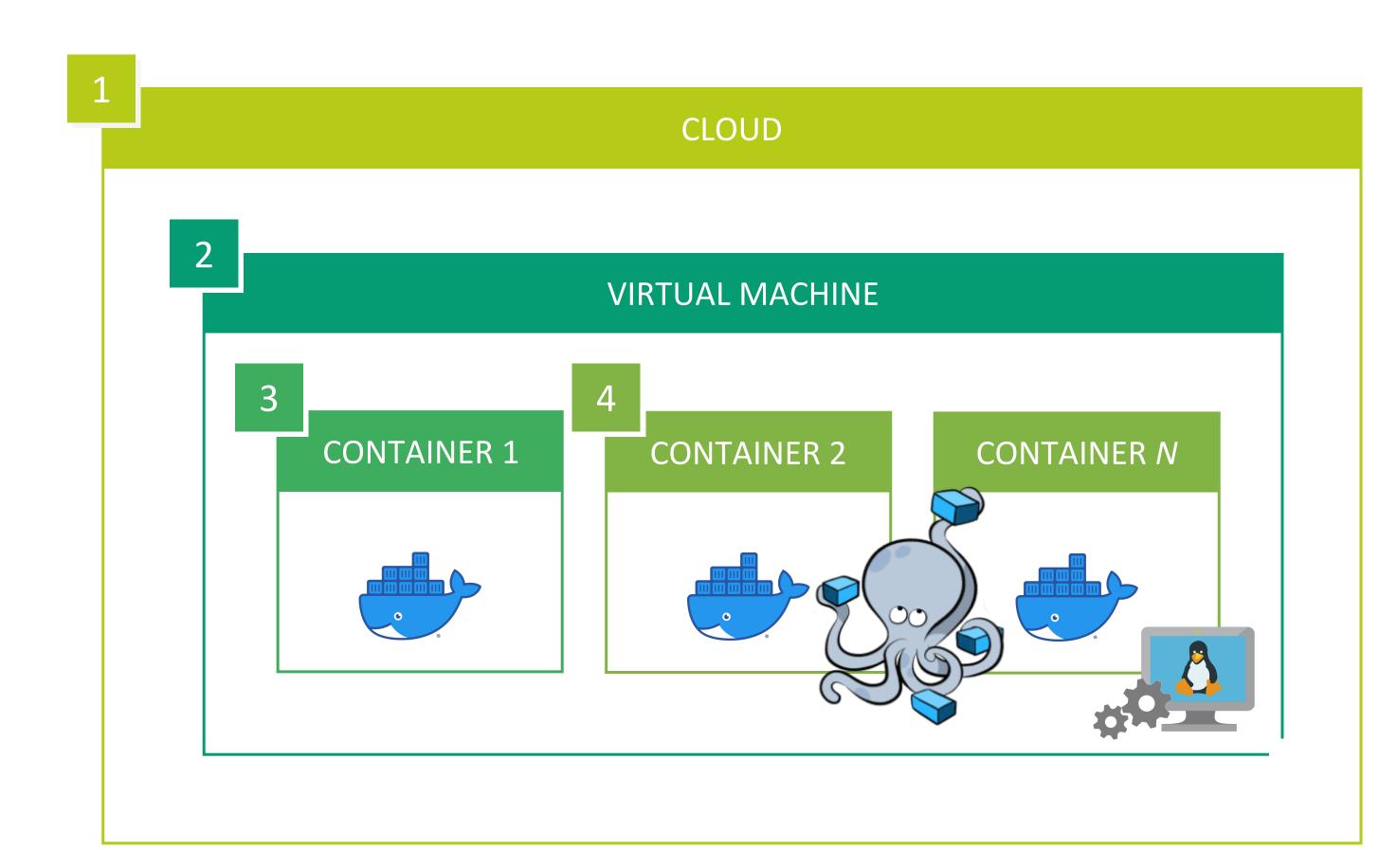
ENVIRONMENT CUSTOMIZATION

Environments run in containers based on our <u>default image</u>, or <u>your own custom</u>

<u>Dockerfile or image</u>.

COMPOSED ENVIRONMENTS

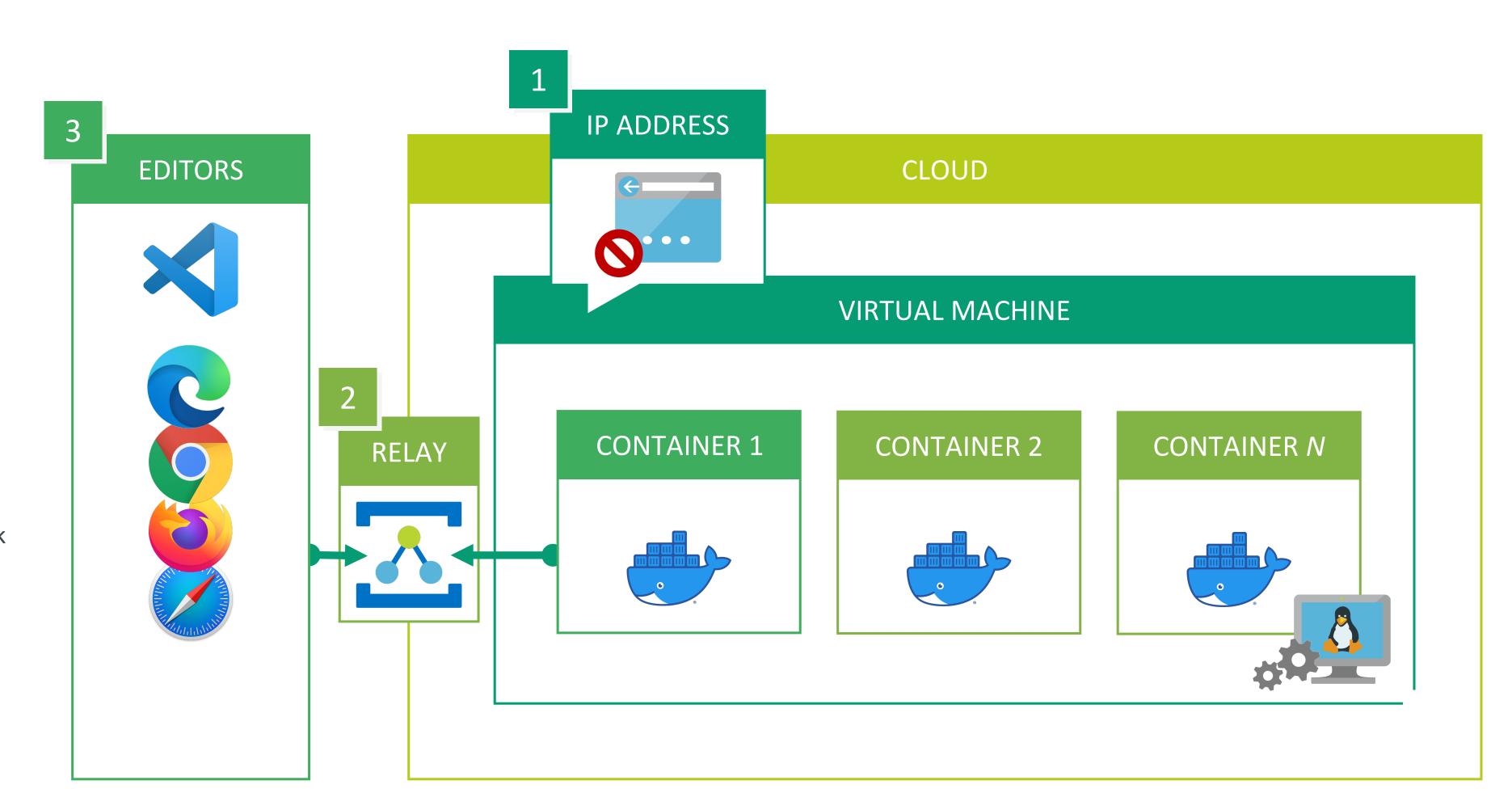
Compose together complex development environments with Docker Compose support



NETWORK

- NO PUBLIC IP ADDRESS
 Environments are not addressable via a public IP.
- NO INBOUND TRAFFIC
 Environments make outbound-only
 connections to relay and are:
 End-to-end Encrypted
 Authenticated
 Authorized
- CONNECTED CLIENTS

 Clients also leverage Relay to eliminate intrusive changes to firewall and network infrastructure.

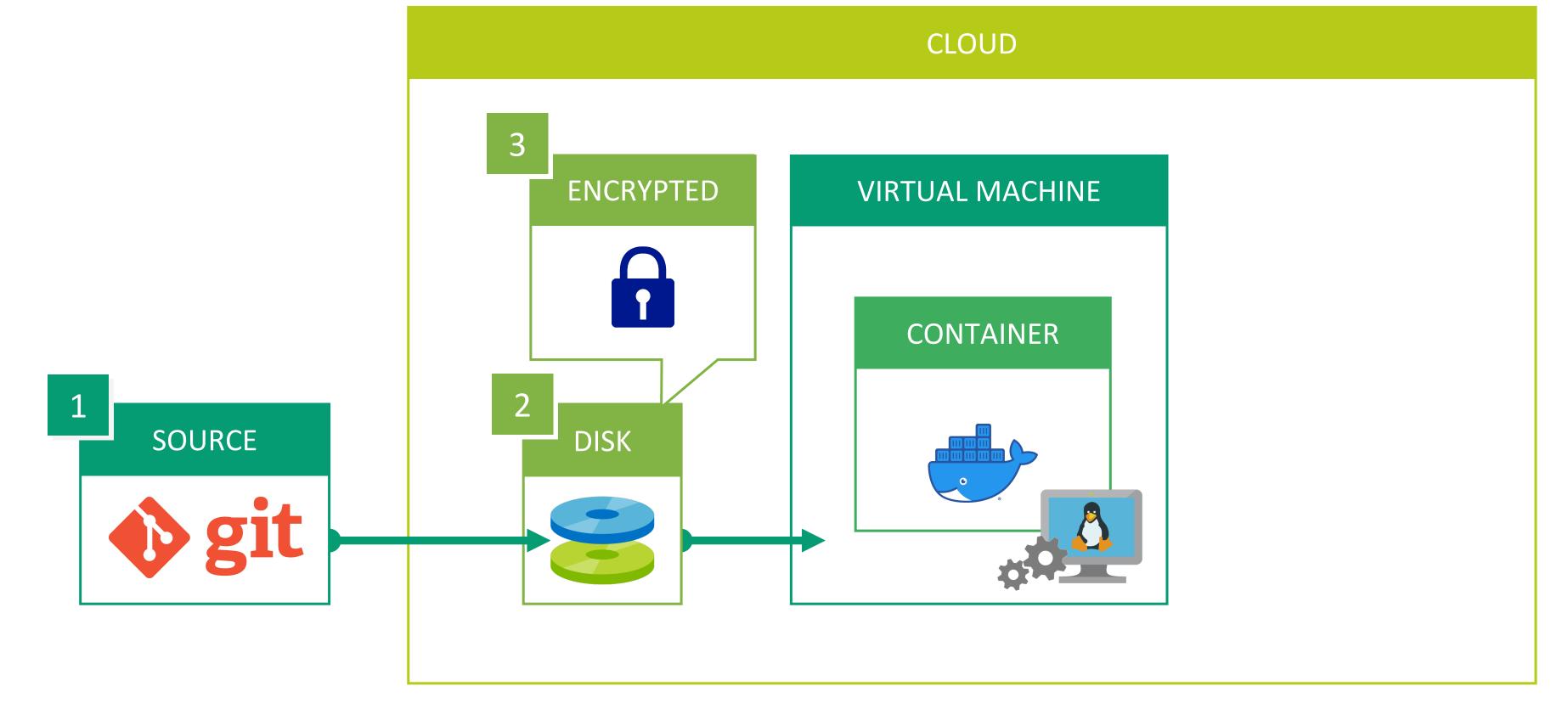


STORAGE

- SOURCE OF TRUTH
 Codespaces leverages existing Git
 repositories as the source of truth.
- DEDICATED STORAGE
 Each environment runs in its own
 dedicated and isolated storage account,
 which is mounted to the VM when active.

ENCRYPTED AT REST

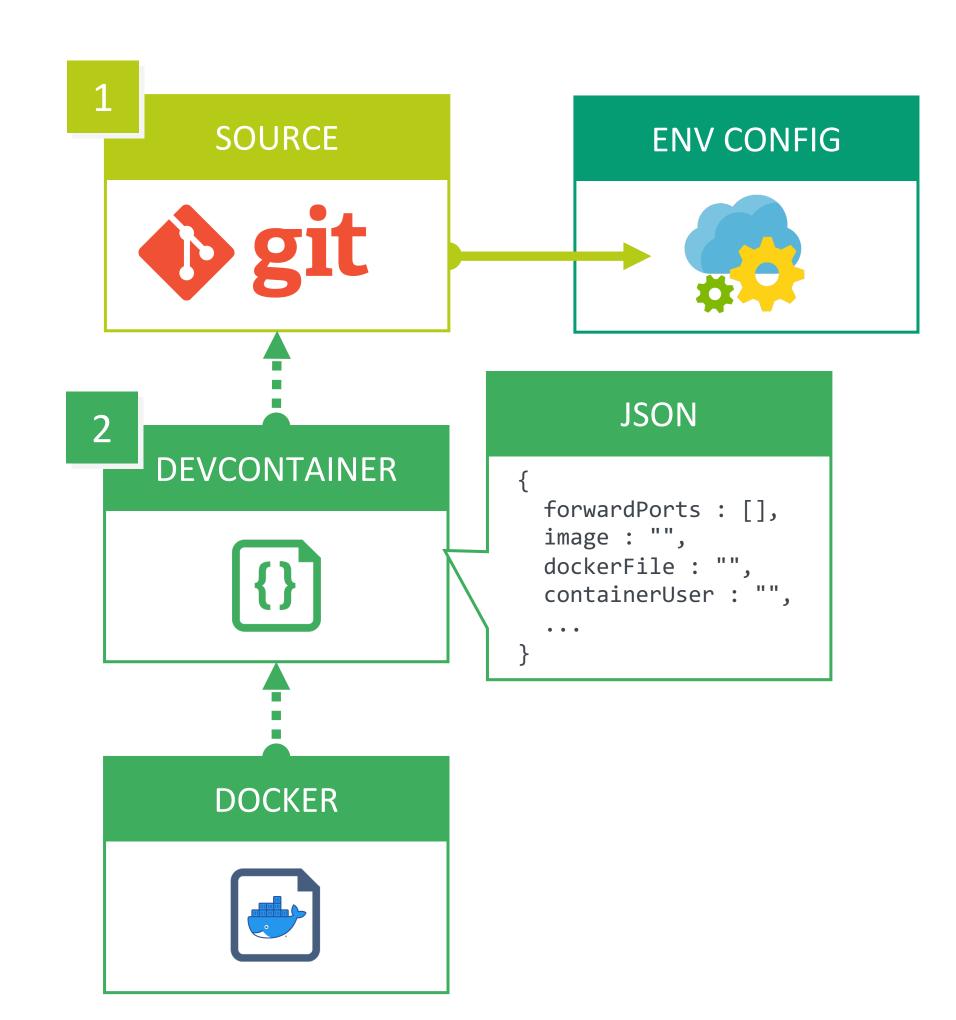
Environment <u>storage is encrypted</u> with managed keys to protect data.



CONFIG

- "GIT-OPS"
 Configuration is versioned in Git. Git credentials are proxied from the client machine, not stored in the environment.
- SECURE BY DEFAULT

 Configure devcontainer.json to expose ports to client machine and customize environment container/user.





DEMO

- 1. SETUP
- 2. LOCAL ENVIRONMENT
- 3. DEVCONTAINER
- 4. CODESPACES

LEARN MORE

https://aka.ms/codespaces-java



@rorypreddy